

CLAIMS:

1. A composition comprising :

(i) at least one structuring polymer having a weight-average molecular weight of from 500 to 500,000 and comprising at least one moiety comprising:

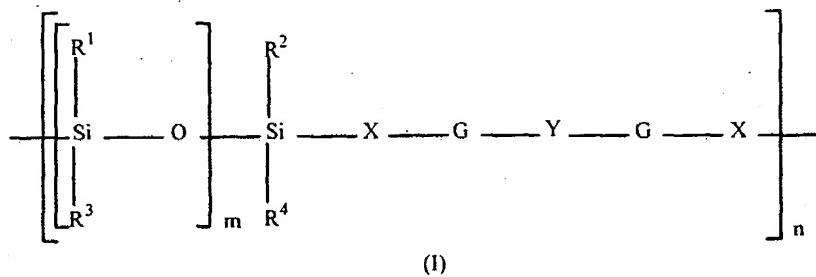
- at least one polyorganosiloxane group, comprising from 1 to 1,000 organosiloxane units in the chain of the moiety or in the form of a graft, and
- at least two groups, which may be the same or different, selected from the group consisting of ester, amide, sulphonamide, carbamate, thiocarbamate, urea, urethane, thiourea, oxamido, guanamido and biguanidino groups, and combinations thereof,

the structuring polymer being solid at 25°C;

(ii) at least one oil selected from the group consisting of hydrocarbon-based liquid oils and silicone oils; and

(iii) silicone elastomer particles comprising a silicone rubber core coated with silicone resin.

2. Composition according to Claim 1, in which the structuring polymer comprises at least one moiety corresponding to the formula:

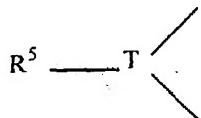


in which:

1) R¹, R², R³ and R⁴, which may be identical or different, represent a group chosen from:

- linear, branched or cyclic, saturated or unsaturated, C₁ to C₄₀ hydrocarbon-based groups, possibly containing in their chain one or more oxygen, sulphur and/or nitrogen atoms; and possibly being partially or totally substituted with fluorine atoms,

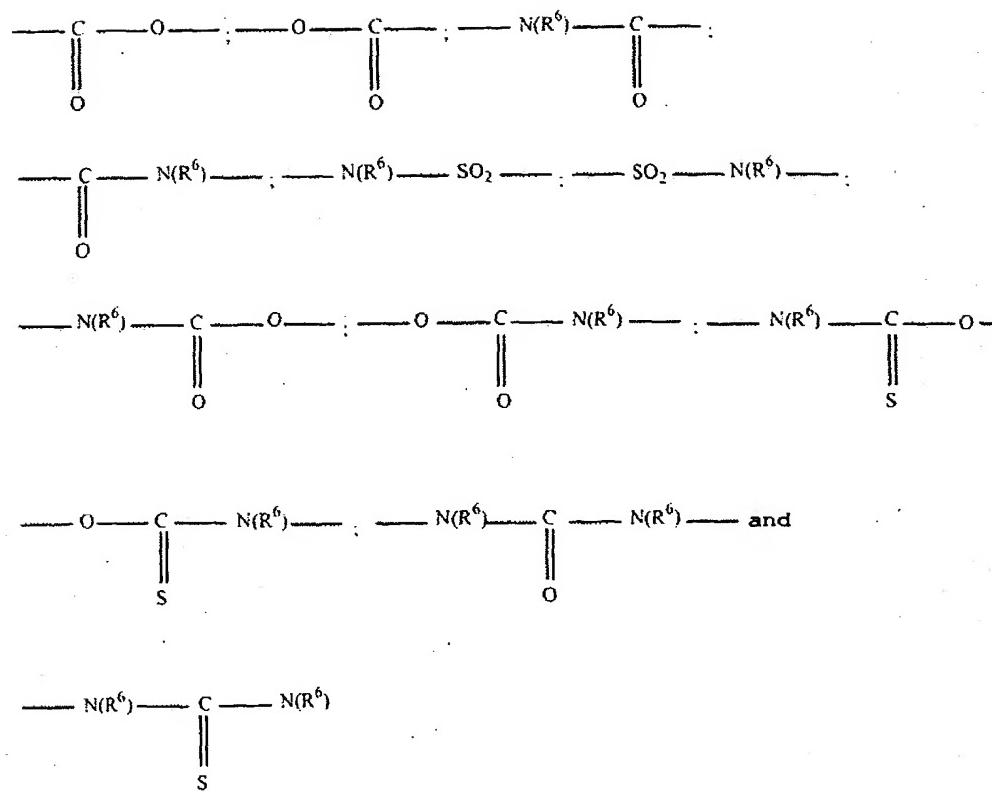
- C₆ to C₁₀ aryl groups, optionally substituted with one or more C₁ to C₄ alkyl groups;
 - polyorganosiloxane chains possibly containing one or more oxygen, sulphur and/or nitrogen atoms;
- 2) the groups X, which may be identical or different, represent a linear or branched C₁ to C₃₀ alkylenediyl group, possibly containing in its chain one or more oxygen and/or nitrogen atoms;
- 3) Y is a saturated or unsaturated, C₁ to C₅₀ linear or branched divalent alkylene, arylene, cycloalkylene, alkylarylene or arylalkylene group, possibly comprising one or more oxygen, sulphur and/or nitrogen atoms, and/or bearing as substituent one of the following atoms or groups of atoms:
- fluorine, hydroxyl, C₃ to C₈ cycloalkyl, C₁ to C₄₀ alkyl, C₅ to C₁₀ aryl, phenyl optionally substituted with 1 to 3 C₁ to C₃ alkyl groups, C₁ to C₃ hydroxyalkyl and C₁ to C₆ aminoalkyl, or
- 4) Y represents a group corresponding to the formula:



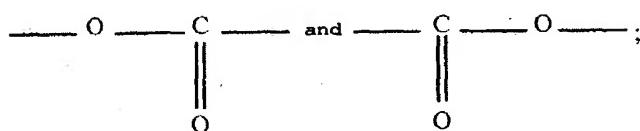
in which

- T represents a linear or branched, saturated or unsaturated, C₃ to C₂₄ trivalent or tetravalent hydrocarbon-based group optionally substituted with a polyorganosiloxane chain, and possibly containing one or more atoms chosen from O, N and S, or T represents a trivalent atom chosen from N, P and Al, and
- R⁵ represents a linear or branched C₁ to C₅₀ alkyl group or a polyorganosiloxane chain, possibly comprising one or more ester, amide, urethane, thiocarbamate, urea, urethane, thiourea and/or sulphonamide groups, which may possibly be linked to another chain of the polymer;

- 5) The groups G, which may be identical or different, represent divalent groups chosen from:



in which R^6 represents a hydrogen atom or a linear or branched C_1 to C_{20} alkyl group, on condition that at least 50% of the groups R^6 of the polymer represents a hydrogen atom and that at least two of the groups G of the polymer are a group other than:

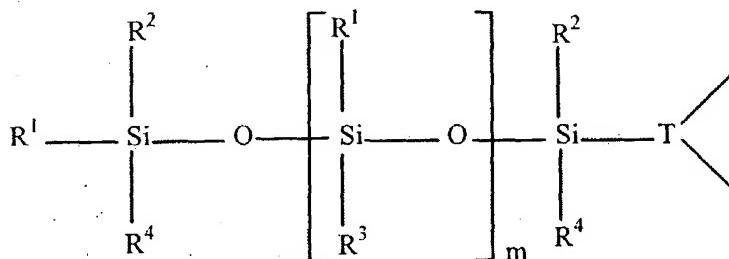


- 6) n is an integer ranging from 2 to 500 and preferably from 2 to 200, and m is an integer ranging from 1 to 1 000, preferably from 1 to 700 and better still from 6 to 200.

3. Composition according to Claim 2, in which Y represents a group selected from the group consisting of:

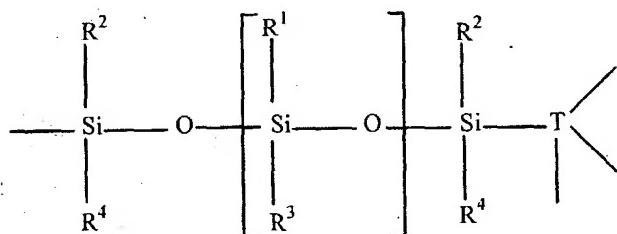
- a) linear C_1 to C_{20} and preferably C_1 to C_{10} alkylene groups,
- b) C_{30} to C_{56} branched alkylene groups possibly comprising rings and unconjugated unsaturations,
- c) C_5 - C_6 cycloalkylene groups,
- d) phenylene groups optionally substituted with one or more C_1 to C_{40} alkyl groups,

- e) C₁ to C₂₀ alkylene groups comprising from 1 to 5 amide groups,
- f) C₁ to C₂₀ alkylene groups comprising one or more substituents chosen from hydroxyl, C₃ to C₈ cycloalkane, C₁ to C₃ hydroxyalkyl and C₁ to C₆ alkylamine groups,
- g) polyorganosiloxane chains of formula:



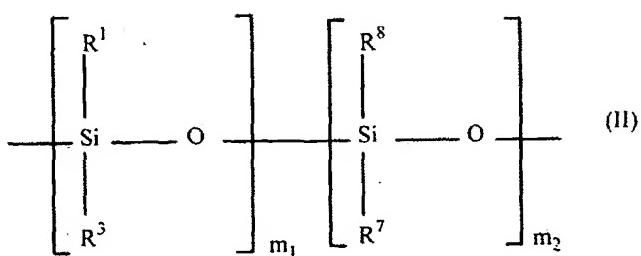
in which R¹, R², R³, R⁴, T and m are as defined above,

- h) polyorganosiloxane chains of formula:



in which R¹, R², R³, R⁴, T and m are as defined above.

4. Composition according to Claim 2, in which the structuring polymer comprises at least one moiety corresponding to formula (II):



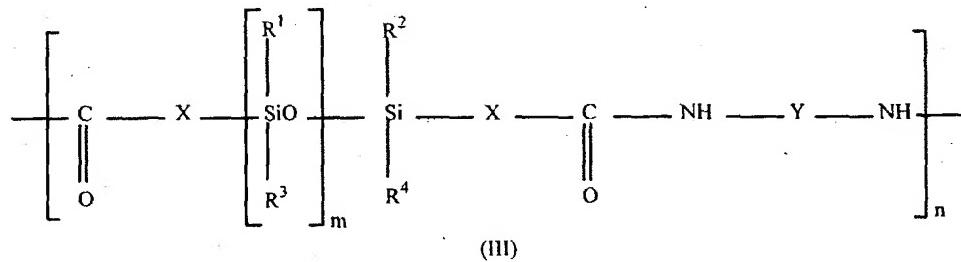
in which

- R¹ and R³, which may be identical or different, are as defined above for formula (I),
- R⁷ represents a group as defined above for R¹ and R³, or represents a group of formula -X-G-R⁹ in which X and G are as defined above for formula (I), and R⁹ represents a hydrogen atom or a linear, branched or cyclic, saturated or unsaturated, C₁ to C₅₀ hydrocarbon-based group optionally comprising in its chain one or more atoms chosen from

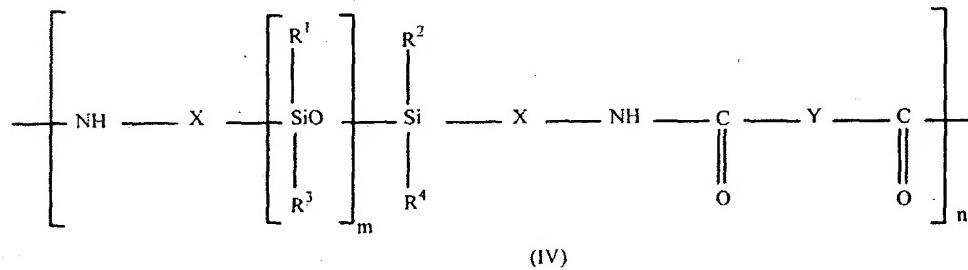
O, S and N, optionally substituted with one or more fluorine atoms and/or one or more hydroxyl groups, or a phenyl group optionally substituted with one or more C₁ to C₄ alkyl groups,

- R⁸ represents a group of formula -X-G-R⁹ in which X, G and R⁹ are as defined above,
- m₁ is an integer ranging from 1 to 998, and
- m₂ is an integer ranging from 2 to 500.

5. Composition according to Claim 2, in which the polymer comprises at least one moiety of formula (III) or (IV):



or



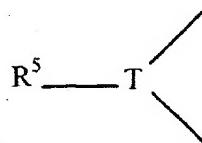
in which R¹, R², R³, R⁴, X, Y, m and n are as defined in Claim 2.

6. Composition according to Claim 2, in which X and/or Y represent an alkylene group containing in its alkylene portion at least one of the following elements:

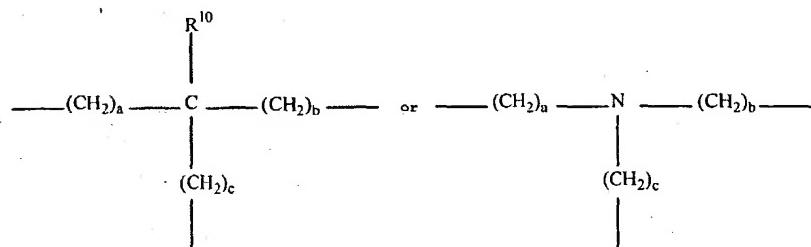
- 1°) 1 to 5 amide, urea or carbamate groups,
- 2°) a C₅ or C₆ cycloalkyl group, and
- 3°) a phenylene group optionally substituted with 1 to 3 identical or different C₁ to C₃ alkyl groups, and/or substituted with at least one element chosen from the group consisting of:

- a hydroxyl group,
- a C₃ to C₈ cycloalkyl group,
- one to three C₁ to C₄₀ alkyl groups,
- a phenyl group optionally substituted with one to three C₁ to C₃ alkyl groups,
- a C₁ to C₃ hydroxyalkyl group, and
- a C₁ to C₆ aminoalkyl group.

7. Composition according to Claim 2, in which Y represents:



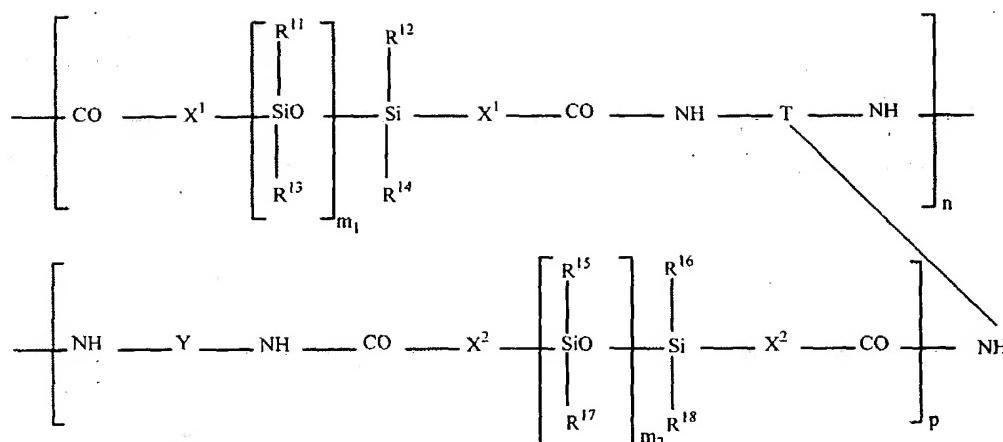
in which R⁵ represents a polyorganosiloxane chain and T represents a group of formula:



in which a, b and c are, independently, integers ranging from 1 to 10, and R¹⁰ is a hydrogen atom or a group such as those defined for R¹, R², R³ and R⁴, in Claim 2.

8. Composition according to Claim 2, in which R¹, R², R³ and R⁴ represent, independently, a linear or branched C₁ to C₄₀ alkyl group, preferably a CH₃, C₂H₅, n-C₃H₇ or isopropyl group, a polyorganosiloxane chain or a phenyl group optionally substituted with one to three methyl or ethyl groups.

9. Composition according to Claim 2, in which the structuring polymer comprises at least one moiety of formula:

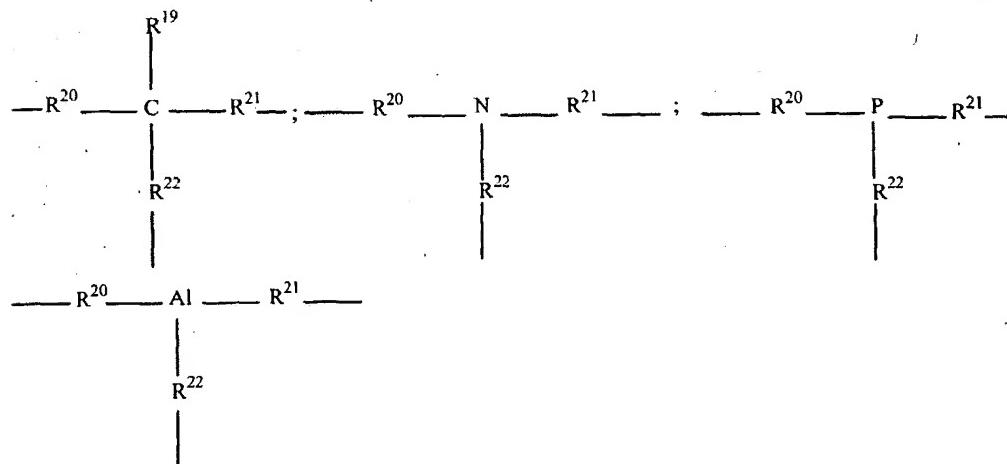


(VII)

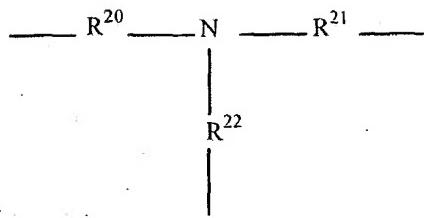
in which X^1 and X^2 , which may be identical or different, have the meaning given for X in Claim 2, n, Y and T are as defined in Claim 2, R^{11} to R^{18} are groups chosen from the same group as R^1 to R^4 of Claim 2, m_1 and m_2 are numbers in the range from 1 to 1,000, and p is an integer ranging from 2 to 500.

10. Composition according to Claim 9, in which:

- p is in the range from 1 to 25 and better still from 1 to 7,
- R^{11} to R^{18} are methyl groups,
- T corresponds to one of the following formulae:



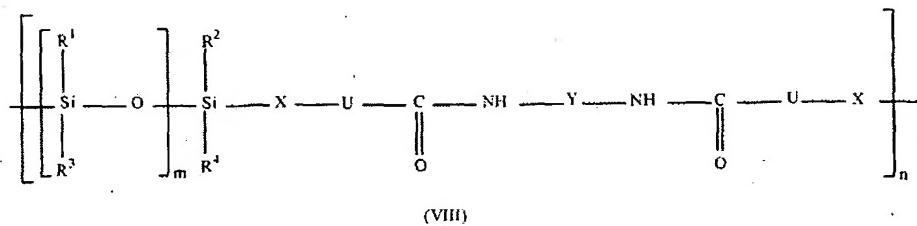
in which R^{19} is a hydrogen atom or a group chosen from the groups defined for R^1 to R^4 , and R^{20} , R^{21} and R^{22} are, independently, linear or branched alkylene groups, and more preferably corresponds to the formula:



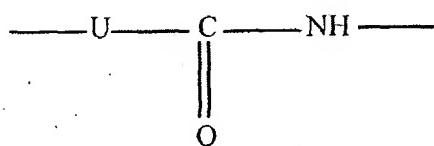
in particular with R^{20} , R^{21} and R^{22} representing $-\text{CH}_2\text{-CH}_2-$,

- m_1 and m_2 are in the range from 15 to 500 and better still from 15 to 45,
- X^1 and X^2 represent $-(\text{CH}_2)_{10}-$, and
- Y represents $-\text{CH}_2-$.

11. Composition according to Claim 2, in which the polymer comprises at least one moiety corresponding to the following formula:



in which R^1 , R^2 , R^3 , R^4 , X , Y , m and n have the meanings given above for formula (I) in Claim 2, and U represents $-\text{O-}$ or $-\text{NH-}$, such that:



corresponds to a urethane or urea group,

or

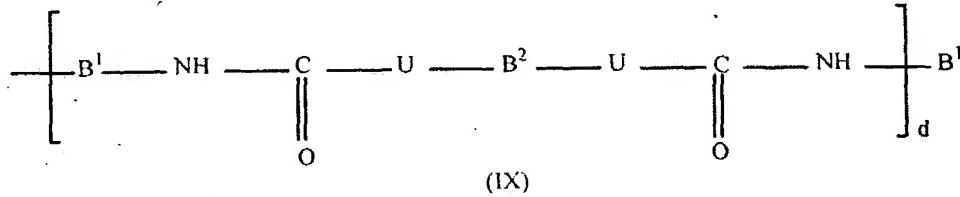
Y represents a C_5 to C_{12} cycloaliphatic or aromatic group that may be substituted with a C_1 to C_{15} alkyl group or a C_5 to C_{10} aryl group, for example a radical chosen from the methylene-4,4-biscyclohexyl radical, the radical derived from isophorone diisocyanate, 2,4- and 2,6-toluenes, 1,5-naphthylene, p-phenylene and 4,4'-biphenylenemethane

or

Y represents a linear or branched C_1 to C_{40} alkylene radical or a C_4 to C_{12} cycloalkylene radical,

or

Y represents a polyurethane or polyurea block corresponding to the condensation of several diisocyanate molecules with one or more coupling agents of the diol or diamine type, corresponding to the formula:

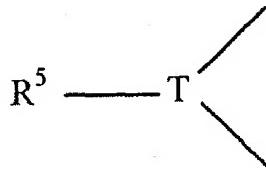


in which B^1 is a group chosen from the groups given above for Y, U is $-\text{O}-$ or $-\text{NH}-$ and B^2 is chosen from:

linear or branched C_1 to C_{40} alkylene groups, which can optionally bear an ionizable group such as a carboxylic acid or sulphonic acid group, or a neutralizable or quaternizable tertiary amine group,

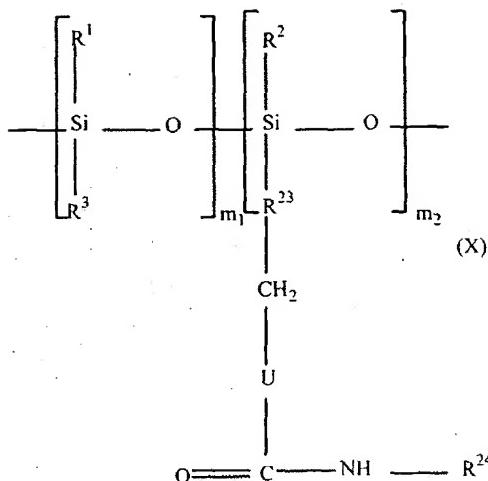
C_5 to C_{12} cycloalkylene groups, optionally bearing alkyl substituents, for example one to three methyl or ethyl groups, or alkylene, for example the diol radical:
cyclohexanedimethanol,

phenylene groups that may optionally bear C_1 to C_3 alkyl substituents, and groups of formula:



in which T is a hydrocarbon-based trivalent radical possibly containing one or more hetero atoms such as oxygen, sulphur and nitrogen and R^5 is a polyorganosiloxane chain or a linear or branched C_1 to C_{50} alkyl chain.

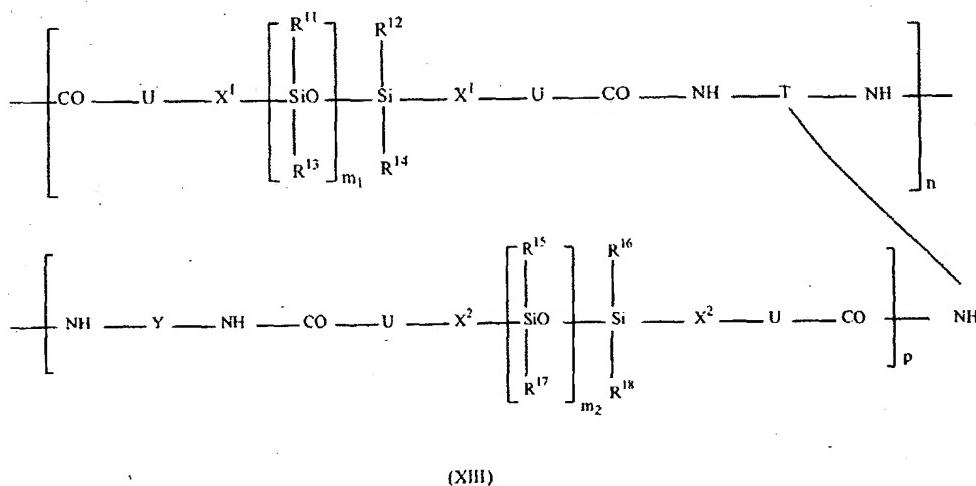
12. Composition according to Claim 1, in which the structuring polymer comprises at least one moiety of formula:



in which R^1 , R^2 , R^3 , m_1 and m_2 have the meanings given above for formula (I),

- U represents O or NH ,
- R^{23} represents a C_1 to C_{40} alkylene group, optionally comprising one or more hetero atoms chosen from O and N , or a phenylene group, and
- R^{24} is chosen from linear, branched or cyclic, saturated or unsaturated C_1 to C_{50} alkyl groups, and phenyl groups optionally substituted with one to three C_1 to C_3 alkyl groups.

13. Composition according to Claim 10, in which the structuring polymer comprises at least one moiety of formula:



in which X^1 and X^2 , which are identical or different, have the meaning given for X in Claim 10, n , Y and T are as defined in Claim 10, R^{11} to R^{18} are groups chosen from the same group

as R¹ to R⁴ of Claim 10, m₁ and m₂ are numbers in the range from 1 to 1,000, and p is an integer ranging from 2 to 500.

14. Composition according to Claim 1, in which the structuring polymer further comprises a hydrocarbon-based moiety comprising two groups capable of establishing hydrogen interactions, chosen from ester, amide, sulphonamide, carbamate, thiocarbamate, urea, urethane, thiourea, oxamido, guanamido and biguanidino groups, and combinations thereof.

15. Composition according to Claim 2, in which the structuring polymer further comprises a hydrocarbon-based moiety comprising two groups capable of establishing hydrogen interactions, chosen from ester, amide, sulphonamide, carbamate, thiocarbamate, urea, urethane, thiourea, oxamido, guanamido and biguanidino groups, and combinations thereof.

16. Composition according to claim 1, in which the at least one structuring polymer represents from 0.5% to 80% relative to the total weight of the composition.

17. Composition according to claim 1, wherein said at least one structuring polymer has a softening point greater than 50°C.

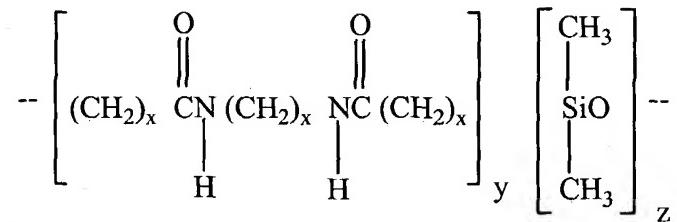
18. Composition according to Claim 1, wherein said at least one structuring polymer has a softening point of less than 150°C.

19. Composition according to Claim 1, wherein said at least one structuring polymer has a softening point ranging from 70°C to 130°C.

20. Composition according to Claim 1, wherein said at least one structuring polymer has a weight-average molecular weight ranging from 500 to 300,000.

21. Composition according to Claim 1, wherein said composition has a hardness ranging from 30 to 300 gf.

22. Composition according to Claim 1, wherein said composition has a hardness ranging 30 to 200 gf.
23. Composition according to claim 21, wherein said at least one oil is a hydrocarbon chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.
24. Composition according to Claim 1, wherein said composition is in the form of a rigid gel.
25. Composition according to Claim 1, wherein said composition is anhydrous.
26. The composition according to Claim 25, wherein said structuring polymer has the following formula:



where x, which may be the same or different, is from 1-100 and the ratio y/z is from 1-10.

27. The composition according to Claim 26, wherein said oil is a dimethicone.
28. The composition according to Claim 26, wherein said oil is a silicone oil.
29. The composition according to Claim 27, wherein said composition is in the form of a rigidified or solid gel that is reversible thermally and/or upon the application of shear.
30. The composition according to Claim 28, wherein said composition is in the form of a rigidified or solid gel that is reversible thermally and/or upon the application of shear.

31. The composition according to Claim 1, further comprising a colorant.
32. The composition of Claim 1, further comprising a wax.
33. The composition according to Claim 1, further comprising polyethylene.
34. A method comprising applying to keratin material the composition of Claim 1.
35. The composition according to Claim 1, wherein said composition is in the form of an emulsion.